

AMENDMENTS TO THE SPECIFICATION

Page 1, at line 2, insert the following heading:

BACKGROUND OF THE INVENTION.

Page 1, please amend the fourth paragraph starting at line 15 as follows:

Active tags are known which incorporate onboard power sources such as a miniature electrical cell. Such power sources have ~~limited~~ a limited operating lifetime, especially if they are required to power their associated tags continuously. Moreover, the sources can make the tags unacceptably bulky for some applications, for example where tags are implemented as film strips for incorporating into spines of library books.

Page 4, please amend the first paragraph starting at line 1 as follows:

The inventor has appreciated that a principal problem associated with tags operated from radiation incident thereupon is that it is difficult to generate potentials on the tags of sufficient magnitude to operate semiconductor integrated circuits incorporated therein. Such circuits frequently require a supply potential ~~a several~~ of several volts to function.

Page 4, at line 5, insert the following heading:

SUMMARY OF THE INVENTION

Page 7, please amend the fourth full paragraph starting at line 20, as follows:

In the tag, the circuit means can ~~comprises~~ comprise responding means for emitting output radiation from the tag, the responding means powerable by the supply potential. Incorporation of the responding means enables the tag to be remotely identified when interrogated.

Page 9, at line 17, insert the following heading:

BRIEF DESCRIPTION OF THE DRAWINGS

Page 10, at line 10, insert the following heading:

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Page 17, please amend the first paragraph starting at line 1, as follows:

The earth plane layer 210 can be selectively absent in a vicinity of the coil 310 so as not to excessively screen the coil 310. The coil 310 is formed onto the second major face of the layer 200 shown in Figure 2 adjacent to the circuits 30, 50 and the transformer 40. The capacitor C_1 , in parallel with an electrical capacitance presented by the transformer 40 between its terminals P_1 , P_2 , and the coil ~~320~~ 310 are operable to parallel resonate at the resonant frequency of the transformer 40, namely 300 kHz. Inclusion of the coil ~~320~~ 310 enables the tag 300 to be powered not only from 1 GHz radiation received at the antenna 20

but also from inductively coupled magnetic fields at 300 kHz coupling to the coil 320 310.

The tag 300 can thereby be powered in two different modes so that it can be used in environments where radiation at either or both frequencies, 300 kHz and 1 GHz, are present; for example, in environments where microwave radiation cannot be tolerated for safety reasons.

Page 24, please amend the first full paragraph starting at line 6, as follows:

As an alternative to using the diodes D1 to D4 in the tags 10, 300, 400 500, 600, FETs functioning as asynchronous detectors may be employed. ~~FETs~~ FETs operating in this ~~made~~ mode exhibit a voltage drop thereacross in the order of microvolts which is less than a forward bias voltage drop associated with diodes.